

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
14 July 2005 (14.07.2005)

PCT

(10) International Publication Number
WO 2005/063259 A1

(51) International Patent Classification⁷: **A61K 31/675**,
C07F 9/59, 9/6553, 9/6558

(74) Agent: **BOHMANN, Armin, K.**; Bohmann & Loosen,
Sonnenstr. 8, 80331 Munich (DE).

(21) International Application Number:
PCT/EP2004/014460

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date:
18 December 2004 (18.12.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
03029450.8 19 December 2003 (19.12.2003) EP

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (*for all designated States except US*): **JERINI AG** [DE/DE]; Invalidenstr. 130, 10115 Berlin (DE).

(72) Inventors; and

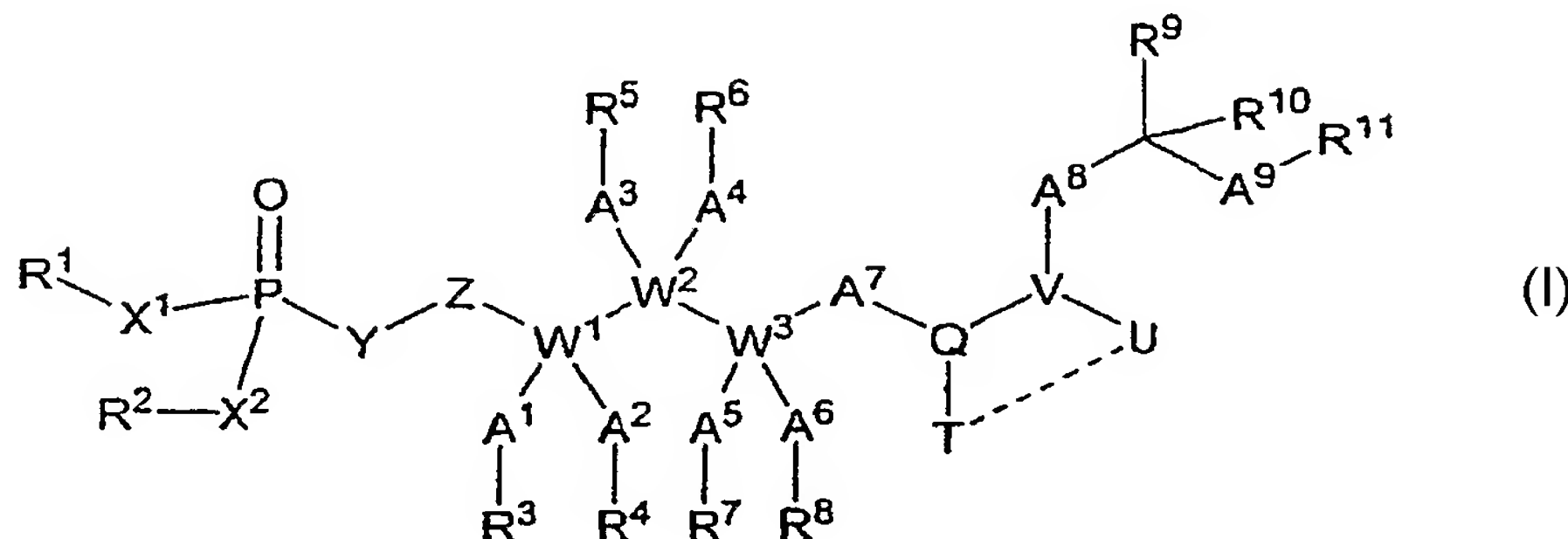
(75) Inventors/Applicants (*for US only*): **KNOLLE, Jochen** [DE/DE]; Schröderstr. 11, 10115 Berlin (DE). **SCHUTKOWSKI, Mike** [DE/DE]; Am Glockenstuhl 27, 06268 Ziegelroda (DE). **HUMMEL, Gerd** [DE/DE]; Pankstr. 12, 13357 Berlin (DE). **TRADLER, Thomas** [DE/DE]; Johanna-Tesch-Strasse 48, 12439 Berlin (DE). **JOBRON, Laurence** [FR/DE]; Pankstr. 12, 13357 Berlin (DE). **CHRISTNER, Claudia** [DE/DE]; Anklamer Str.1, 10115 Berlin (DE). **GIBSON, Christoph** [DE/DE]; Lychener Str. 8, 10437 Berlin (DE). **ZISCHINSKY, Gunther** [AT/DE]; Kurmärkische Str. 14, 10783 Berlin (DE).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: COMPOUNDS FOR THE INHIBITION OF UNDESIRE CELL PROLIFERATION AND USE THEREOF



(57) Abstract: The present invention is related to compounds having formula (I), wherein the dashed line indicates a single or double bond or is absent and wherein A¹-A⁹, Q, R¹-R¹¹, T, U, V, W¹-W³, X¹, X², Y and Z are as defined in the claims and description, pharmaceutical compositions comprising the compounds and the use of the compounds for the manufacture of a medicament for the treatment of diseases involving abnormal cell proliferation, undesired cell proliferation, abnormal mitosis and/or undesired mitosis.